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THE
MARYLAND
AGRICULTURAL COLLEGE,
COLLEGE PARK, MD.



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JAN 8 1897
NEW YORK

ANNOUNCEMENT.

YEAR OF 1897-1898.

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THE LIBRARY OF THE
JAN 8 1901
UNIVERSITY OF MARYLAND

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Faculty and Organization.

R. W. SILVESTER,

President and Professor of Mathematics.

RICHARD H. ALVEY,

Vice-President and Professor of English and Civics.

CLOUGH OVERTON,	-	1st Lieut. U. S. Cavalry,	Professor of Military Science.
W. T. L. TALIAFERRO,	- - - - -		Professor of Agriculture.
H. B. McDONNELL, M. D., B. S.,	- - - - -		Professor of Chemistry.
MARTIN P. SCOTT, M. D.,	- - - - -		Professor of Natural History.
W. G. JOHNSON, A. M.,	- - - - -		Professor of Entomology.
JAS. S. ROBINSON,	- - - - -		Professor of Botany and Horticulture.
THOS. H. SPENCE,	- - - - -		Professor of Languages.
HORACE G. WELTY,	- - - - -		Professor of Physics and Civil Engineering.
H. GWINNER,	- - - - -		Professor of Mechanics.
SAMUEL S. BUCKLEY, B. S., D. V. S.,	- - - - -		Professor of Veterinary Science.
HENRY T. HARRISON,	- - - - -		Principal Preparatory Department.
H. M. STRICKLER,	- - - - -		Professor Physical Culture.
H. C. SHERMAN, B. S., Ph. D.,	}		Assistant Chemists.
F. P. VEITCH, B. S.,			
W. W. SKINNER, B. S.,			
J. R. LAUGHLIN, B. S.,			
F. B. BOMBERGER, B. S.,	- - - - -		Assistant in English and Mathematics.
JOS. R. OWENS, M. D.,	- - - - -		Registrar and Treasurer.

Graduates and Degrees—1897.

CHAS. B. CALVERT, JR., A. B.

JOHN D. CRONMILLER, A. B.

ALBERT S. GILL, B. S.

NICHOLAS H. GILL, B. S.

J. GEO. R. GRAHAM, A. B.

HARRY HEWARD, B. S.

GRENVILLE LEWIS, B. S.,

BERT. S. NELLIGAN, B. S.

FABIAN POSEY, A. B.

CHAS. J. QUEEN, B. S.

G. K. W. SCHENCK, B. S.

BENJ. WATKINS, JR., B. S.

WM. S. WEEDON, B. S.

HARRY T. WELTY, B. S.

GILBERT H. WHITEFORD, B. S.

Calendar for 1897.

Entrance Examinations, September 16, 17 and 18th, 1897.

First Term begins September 20th, 1897.

First Quarter ends November 15th, 1897.

Second Term begins Monday, February 7th, 1898.

Xmas vacation begins noon Wednesday, December 22nd, 1897.

1898.

Studies resumed Tuesday, January 4th, 8 a. m.

Third Quarter ends April 1st.

Second Term ends June 1st.

Commencement, June 15th.

LOCATION AND DESCRIPTION.

The Maryland Agricultural College is located in Prince George's County, Maryland, on the line of the Washington Branch of the B. & O. R. R., eight miles from Washington and thirty-two miles from Baltimore. Eight trains a day from each city stop at the station at College Park, one mile from the College. Conveyance from the station is by College teams.

The College grounds front on the Baltimore and Washington turn-pike. The suburban town of Hyattsville is two and a half miles to the south, and Laurel, the largest town in the county, is thirteen miles to the north, on the same road.

The site of the College is particularly beautiful. The buildings occupy the crest of a commanding hill, covered with forest trees, and overlooking the entire surrounding country. In front, stretching to the turn-pike, is a broad campus, the drill ground and athletic field of the students. A quarter of a mile to the north-east are the buildings of the Agricultural Experiment Station.

The College Farm contains about three hundred acres and is devoted to the gardens, orchards, vineyards and general farming.

The main College building is of brick, five stories in height. It contains the students' quarters, mess-hall, most of the lecture rooms and offices. It, with all the other buildings, is heated by steam and lighted with gas, made on the grounds.

The dormitories are large, well ventilated and provided with bath and water rooms and a fire escape.

The Mechanical Department is located in a two-story brick building, completed in 1896, and now thoroughly equipped. It contains work-shops for carpentry and forging, machinery rooms, a drawing room, lecture room, library and office. It is a model building of its kind. A new brick Chemical Laboratory has just been completed. Its arrangement is admirable, and it will be most fully and adequately equipped. The old Chemical Laboratory, on the south side of the main building will be used for domestic purposes. A substantial Library and Gymnasium building was erected in 1894. During the present year it has been determined to build a new and model farm barn. A long felt want will thus be filled.

The general appearance of the College grounds is exceedingly attractive. They are tastefully laid off in lawn and terraces with orna-

mental shrubbery and flower plots, and the view from the grove and campus cannot be surpassed in the country.

The location of the College is entirely healthful, the sanitary conditions are excellent. No better proof of this can be given than that there has been no really serious case of illness among the students within eight years.

PURPOSE AND SCOPE OF WORK.

The Agricultural College is the State School of Science and Technology. While seeking first of all to perform the functions of an Agricultural and Mechanical College its sphere of work has been widened to embrace all the sciences akin to Agriculture and all the arts related to Mechanical Training. To these special and prominent lines of work have been added such branches of study as are necessary for a liberal education, for the development of the intelligent citizen, and the making of the man of general culture. The purpose of this College is to give to young men anxious to prepare themselves for the active duties of life such training in the sciences or in the mechanical work-shop as will enable them to take their places in the industrial world well prepared for the fierce competition of the day.

Recognizing that such an education, in order to be of practical advantage to the many, must be offered at a cost within the means of all, the Board of Trustees have reduced the expenses for the year to the student to the point where his college dues are not in excess of his ordinary daily expenses. It is to be remembered that the College is a State Institution, in part supported by the State, in part by the Federal Government, through its several endowment acts, and that it is in no sense a money-making concern, but simply a medium of disbursement by the Government to those classes upon whom the safety and prosperity of the State so largely depends.

While the College provides, as will be hereinafter explained, several distinct courses of instruction, looking to the special training of the student in Agriculture, Mechanical Engineering, the Natural and Physical Sciences and Belle Lettres, the fact is kept clearly in view that a sound foundation must be laid for each and every course. Successful specialization is only possible after the student has been prepared for it by a thorough training in the essentials. All education must be narrow and one-sided which does not provide for the general culture of the student, and which does not look first to the natural and normal development of the individual. The general working plan of the College may be thus

described. It begins with the student in his first or Freshman year a systematic and carefully adjusted scheme of work, differing but little in the several courses, and looking to his general development in mental strength, range of information and power of expression and thought. At the beginning of his second year differentiation may be said to begin along those lines for which he shows most aptitude. This gradual specialization continues during his third year, until in his last or Senior year his work consists almost wholly of one or more closely related subjects, in which he is able thoroughly to prepare himself. With the present equipment of the Laboratories and Mechanical work-shops, a student is able to become so proficient in his chosen line of work that when he leaves the College a career is open to him, if he chooses to avail himself of it.

The Agricultural College is legitimately the crowning point of the Public School System of Maryland. Its aim is to provide higher education for the graduates of the county schools. To this end its curriculum is adjusted to meet the preparation of such students. It is this class of young men that the College especially desires to reach. Experience has shown that most satisfactory students come as graduates from the county schools; and no effort will be spared to make the transition from the High School or Grammar School to the College a possible one for all those actuated by an earnest desire to complete their education.

COURSE OF STUDY.

For the coming year the College will offer four regular courses of study:—The Agricultural, Mechanical, Scientific and Classical Courses. To these have been added a short winter course in Agriculture.

THE AGRICULTURAL COURSE.

In this course the main subject is Scientific Agriculture, in its various branches,—the first principles of Agriculture, Crop Rotation, Plant Food and Growth, Fertilization, Drainage, Stock Breeding and Raising, Dairying, Soil Analysis and Soil Physics. As collateral branches are taken up Chemistry. (General and Agricultural), Physics and Mechanics, with special reference to farm machinery, Botany and Horticulture, Geology, Zoology and Entomology, Veterinary Science, at least one modern language and Mathematics, English History, Civics and Political Economy, which form the ground work of every course.

The object of the Agricultural Course is to acquaint young men who propose to engage in farming with the results of recent experiments and research in scientific agriculture,—to enable them to practice general farming, dairying or stock-raising in accordance with the best known methods of modern times.

It is not at all the intention to require those pursuing this course to engage in the manual labor of the farm. Such mere practical knowledge may be more easily acquired at home. Instruction is by means of text books, lectures and object lessons at the College and Experiment Station, in the field, garden, orchard and stock-yard. The course leads to the Degree of Bachelor of Science.

THE SHORT WINTER COURSE.

This course is especially intended for those who have neither the time nor the opportunity to take the regular four years' course as students of the College. In fact, it is rather designed for those who are actually engaged in farming, and who can afford six or eight weeks during the winter to attend lectures and follow the practical work of the College and Experiment Station. The course embraces the following subjects:—Farm Crops, Drainage, Stock-Breeding, Stock-Feeding, Manures, Tobacco, Dairy Husbandry and Chemistry, Horticulture, Agricultural Farm Accounts, Farm Buildings and Architecture, Carpentry and Blacksmithing, Veterinary Science, and the Principles of Citizenship and Business Law. The nominal charge is made of \$5.00 for the Course. The entire expenses need not be over \$50.00. The course extends through the months of January and February.

For further particulars address,

W. T. L. TALIAFERRO,

Prof. of Agriculture, M. A. C.,

College Park, Maryland.

MECHANICAL COURSE.

Since the completion of the Mechanical Building and its equipment, no department of the College has done more efficient work. It was one of the declared purposes of the Federal Government in making its liberal endowments to the Land Grant Colleges to secure the establishment and the proper equipment of Departments of Mechanical Engineer-

ing in all such institutions. Under the efficient direction of Lieut. J. D. Ford, of the U. S. Navy, detailed at this College, the Mechanical Department was organized and the building erected and practically equipped. His successor, Prof. H. Gwinner, has completed the equipment of the department, and the mechanical course is now one of the most satisfactory and popular.

This course leading to the Degree of Mechanical Engineer, includes shop work in Wood and Iron, Foundry work, Forging, Mechanical Drawing, Hydraulics, Thermo-dynamics and Steam Engineering, Machine Design and Construction, Testing, Dynamo-Electricity and Electrical Engineering. The practical work is most thorough. The student is familiarized from the first with the use of all the tools and implements of wood and iron work. He is given daily practice in the shops, and is encouraged to develop whatever inventive talent he may have. Lecture and Text-book work in Theoretical Mechanics form part of the course. As yet no students have attained the Degree of M. E., as the Department has not yet completed its fourth year. It is believed, however, that students completing this course will have no difficulty in securing employment after graduation in the field of Mechanics and Electrical Engineering. The collateral branches of this course are Mathematics, Physics, Chemistry, at least one modern language, English, History and the principles of Citizenship.

SCIENTIFIC COURSE.

The Scientific Course is designed for those who desire to secure the advantages of a general, liberal education, with the opportunity of specializing in some line of modern science.—Chemistry, Biology, Entomology, Physics, Mathematics or Electro-Metallurgy and Photography.

The basis of the course is a thorough training in Mathematics, English and the Principles of Government and Citizenship. The opportunity is given the student in his senior year of electing one or more special scientific branches, and combining the text-book and lecture instructions with practical laboratory work. The following are the principal lines upon which the students may specialize:

MATHEMATICS AND SURVEYING.

In Mathematics the work of the course is Algebra, Geometry (Plane and Solid), Trigonometry (Plane and Spherical) and Analytical Geometry, and Differential and Integral Calculus. Civil Engineering and Sur-

veying are taught practically in all of their departments. The student is taught the use of the instruments, and during the open season of the year has constant field work. Graduates are prepared to accept positions on surveying corps, and are well grounded in the elements of Civil Engineering.

ENGLISH AND CIVICS.

The English work, which is common to all courses, consists of the study of the structures of the English language, Literature (English and American), Theoretical and practical Rhetoric, Logic, Critical Reading and Analysis and constant exercise in expression, composition and thesis writing. In Civics the first two years are devoted to the study of General History, followed by the principles of Civil Government, Constitutional History, Political Economy, with special reference to current, social and industrial problems, and, in the senior year, lectures on the elements of Business Law.

MODERN LANGUAGES.

French and German form a part of the Scientific Course. A year is devoted to each language. The usual course of grammar and composition is followed by translation and sight reading. In the Senior year the translation of Scientific German is offered as an optional study.

CHEMISTRY.

The course in Chemistry is particularly thorough. The chemical laboratories are finely equipped, and the new chemical building will be opened for use during the coming fall. Beginning with the elements of General Chemistry, the student is given daily laboratory work, and the text book is supplemented with lectures and class experiments Qualitative Analysis, Quantitative Analysis, Organic Chemistry, and in the Agricultural Course, Agricultural Chemistry, complete the work of the Department.

The students making a specialty of Chemistry have almost invariably been able to secure positions after leaving the College. In no other College in the State is the Chemical Course as efficient and thorough.

GEOLOGY AND BIOLOGY.

This department is necessarily a most important one. The facilities for instruction are adequate, and the opportunity for practical work

makes it a popular part of the course. In the Freshman year Geology is studied, the subject being illustrated by an excellent collection of minerals. In the Sophomore year the branch taught is Physiology. A valuable and complete set of models serve to illustrate this work and that of the Junior year,—Zoology. The work of the Senior year is that of General Biology. During the second term class-work in Dissection and Microscopy is offered. Instruction is by text-book, lectures, quizzing and laboratory practice.

BOTANY.

In Botany the instruction is by lectures and practical illustration in the garden, orchard, vineyard and greenhouse. The work runs through all classes.

ENTOMOLOGY.

In Entomology a course of lectures to the Junior and Senior classes is delivered by Prof. Johnson,—the State Entomologist. Especial attention is paid to Economic Entomology. A course in laboratory work is offered to the Senior class. This Department is a new one, and promises to accomplish excellent results.

VETERINARY SCIENCE.

The course as laid out for the instruction in Veterinary Science has been with a view toward fostering the live stock interests of the State, in encouraging the breeding of a better class of animals and securing for them that care by means of which they may be kept from disease.

This instruction, working in harmony both with the instruction in Agriculture and Biology, is intended to show both the value and manner of preventing rather than the cure of disease.

The subject of Embryology is taught as a supplemental branch of Breeding, and Nutrition as a supplemental branch of Feeding.

Veterinary Anatomy will be taught by lectures and illustrated by means of models and dissection of the animal under consideration. The subjects of Hygiene, Stabling and general management will be thoroughly considered.

Graduates of this institution who have completed the course in Veterinary Science are entitled to admission into the second year class in Veterinary Colleges requiring three years of not less than six months each, upon recommendation of the Veterinarian in charge.

PHYSICS.

A well equipped laboratory is one of the features of the Scientific Course. The instruction is begun in the Sophomore year, and includes the study of the Mechanical Powers, Heat, Light, Acoustics, Hydraulics, Hydrostatics and Electricity. The lectures are illustrated by experiments conducted in the laboratory with the most modern physical apparatus. The application of Mathematics to Physics and the solution of original problems form an important part of the work.

In the senior year an optional course is offered in Electro-metallurgy and Photography. Electroplating is practically taught, with special reference to its bearing upon the work of the Mechanical Department. Provision has been made for suitable quarters and appliances for advanced work in Photography and its applications.

CLASSICAL COURSE.

This course was instituted to meet a very urgent demand on the part of patrons of the College for a course of study which should prepare young men to enter the so-called learned professions. The course includes Modern Languages,—French and German—Latin running throughout the entire four years, lectures on Mythology and Mythological History, the English and Civics course, Mental Science, Mathematics in the Freshman, Sophomore and Junior years, and one year each of Chemistry, Geology and Physics. The Degree conferred is Bachelor of Arts. The number of students availing themselves of this course has been proportionately large. More time and attention is given to the literary development of the students than is possible in the other courses; and the standard of work has been considerably raised.

ELECTION OF STUDIES.

In thus briefly describing the instruction given in the several courses, it is our purpose to so far make clear the general scope of each course as to enable the patrons of the College to determine from the first what course a student should adopt on entering. It has been found necessary to establish the general rule that a student once entering any course cannot leave it without some extraordinary reason.

DEGREES.

The Degree conferred upon the graduates in the Scientific Course is Bachelor of Science. It is proposed during the coming year to allow

the members of the Senior class to select particular scientific work for the entire year, subject to the direction of the Faculty, instead of for the second term only as has heretofore been the practice.

THE MILITARY DEPARTMENT.

The Military Department is a distinctive feature of the College. By special Acts of Congress provision is made for the maintenance of a Department of Military Science in each of the Land Grant Colleges. An officer of the U. S. Army is detailed to act as instructor and as Commandant of Cadets.

Our Military Department is in a most flourishing condition. All students upon entering are enrolled in one of three companies of the Battalion. All students are required to wear the prescribed uniform at all times when on duty. The control of the students in barracks is entrusted to Cadet Officers, under the supervision of the Commandant, and the discipline of the College is generally military in its nature. Promotion in this department is made according to merit and record in military matters.

The practical instruction of the cadets consists of daily infantry drill, the manual of arms, company and battalion drill, extended order drill, out-post duty and artillery drill. The study of tactics, theoretical and lectures on Military Science constitutes the class-room work of the department.

One of the most practical of the features of the Military Department is the Annual Encampment of the cadets at the close of the scholastic Year. Two such encampments have been held, one at Tolchester Beach and one at Bay Ridge. The record of these encampments has been most satisfactory, and their effects upon the moral and military standard of the students most excellent. Especially gratifying have been the comments from the officers of the State National Guard, who inspected the camp at Bay Ridge. It has been recommended that the commissioned officers of the college battalion be given commissions in the State militia upon graduation.

The Military Department is a decided factor in the moral and physical development of the student body. By encouraging habits of promptness, obedience and neatness, and by its beneficial effects upon the carriage and general health of the students, it adds materially to the usefulness of the college as an educational institution in the true sense of the word.

PREPARATORY DEPARTMENT.

For four years the college has maintained a Preparatory Department. While not desirous of encouraging the admission of very young students, it was found necessary to make some provision for those whose previous training in the essentials has been deficient, and who need at least a year's careful instruction to prepare them for the work of the collegiate course. This is the object of the Preparatory Department. The wisdom of the plan has been demonstrated by the excellent record made by the students who have passed from it to the higher classes. The studies pursued are: English Grammar, Arithmetic, Algebra, U. S. History, Geography, (Political and Physical), Bookkeeping and Drawing. The requirements for entrance are given in another part of this announcement.

DEPARTMENT OF PHYSICAL CULTURE.

The physical culture of the students is provided for by a regular course of instruction in the Gymnasium, under the direction of a Professor of Athletics. The course is carefully planned, so as to develop gradually and scientifically the physical powers of each student. Beginning with the simplest calisthenic exercises, the instruction covers the whole field of light and heavy gymnastics, and field and track athletics.

The equipment and arrangement of the Gymnasium is very complete and the interest manifested by the students is a sufficient proof of the success of this Department. While desiring to make the work in the Gymnasium of practical value to all the students, the required work only extends through the Preparatory, Freshman and Sophomore years. After that, Athletics as a part of a student's course is entirely optional.

THE COLLEGE LIBRARY.

The College Library is located in the second story of the Gymnasium Building. The reading room is well arranged and lighted, and is in every respect a comfortable and convenient apartment for the purpose. While the library is not large, the collection of books has been carefully chosen, and the shelves contain a very fair supply of works of reference, history, biography, essays, poetry and standard fiction. Thanks are due to many friends of the College who have made contributions to the library of books, stands and pictures. Almost all the leading periodicals and newspapers are subscribed to. The library is yearly proving a more

important adjunct to the work of the College. Its effect is notably felt in the growing interest of the students in matters literary.

REQUIREMENTS FOR ADMISSION.

For admission to the College Department,—Freshman Class—an entrance examination is required. This examination will be held at the College on September 16th, 17th and 18th. The applicant will be expected to pass a satisfactory examination in the following subjects:—English Grammar, Composition and Analysis, U. S. History, Arithmetic (complete), Algebra (as far as quadratics), Political and Physical Geography. A mark of 70 per cent. is necessary to pass. For entrance to the Preparatory Department the requirements are:—English Grammar, Arithmetic (as far as per centage), U. S. History and Political Geography.

Every applicant for admission to the College must bring satisfactory testimonials as to character and previous scholarship from one or more persons qualified so to speak,—his former teacher, pastor or neighbor acquainted with his general reputation. This will be absolutely insisted upon. No student need apply for entrance who cannot furnish such credentials.

Applicants for admission to higher classes than the Freshman must be prepared to take an examination equivalent to that given at the College for promotion to such classes, or must present certificates from county or city schools covering the work of the lower College classes.

SCHOLARSHIPS.

The College offers a number of free-scholarships,—three for Baltimore City and one for each County of the State. These scholarships are awarded to the successful candidate in competitive examinations conducted by the Superintendent of Public Instruction of Baltimore City and in the Counties by the County Examiner. All scholarship students must be prepared for entrance to the Freshman class, and are required to take the regular entrance examination. Each scholarship is good for four years, or for such part thereof as the holder remains at the College. It is then again open for competition. The cost per year for scholarship students will be found under the head of student-expenses.

PROMOTION.

In order to pass from one class to the next higher class a student is required to pass the yearly examination by a mark of at least 60 per

cent. in each study, and to have a combined mark in each branch (daily and examination) of at least 70 per cent. A failure in not more than two branches will enable a student to pass to the next class with conditions in those studies in which he has failed; but in every case the student is required to make good such failures during the next year.

It has been found necessary to make some regulations to provide for cases of using unfair means in examinations. The Faculty, therefore, has agreed upon the following rule, which will be rigidly adhered to:—Any student detected in so doing will be required to surrender his papers, and will not under any circumstances be given another examination in that particular study.

DISCIPLINE AND REGULATIONS.

The discipline of the College, as has been stated is generally Military in its character. Students are under the control of Cadet Officers, subject to the direction of the officer in charge who makes a daily report to the Commandant of Cadets. The final authority, however, in all cases, is the President of the College.

All students are expected to conduct themselves as young gentlemen worthy of respect and confidence. Upon entrance each one is required to give his word that he will comply with all the rules and regulations of the institution. A copy of these rules is then given him, and he is held responsible for all acts in disregard thereof. Cadet Officers in receiving the honors which promotion implies, accept with them obligations and duties which they are bound to regard. This is the key-note of student government. Failure in duty means necessarily forfeiture of confidence and trust.

Punishment for trivial breaches of regulations consists of deprivation of privileges, confinement to grounds or rooms or special Military duties; for aggravated offences the punishment may be suspension or expulsion, at the discretion of the Faculty and the President.

Frequent absences from the College are invariably of great disadvantage to the student, in breaking in upon the continuity of his work, and in detracting his mind from the main purpose of his attendance at the institution. Parents are therefore earnestly asked to refrain from granting frequent requests to leave the College.

Quarterly reports are sent to each parent showing the student's progress in class work and his general standing as to conduct, etc. At the end of the year a detailed report of the year's work is made.

During the past four years the discipline and general morals of the student body has been good, but much always depends upon the class of students received and the home influence brought to bear upon them.

RELIGIOUS SERVICES.

The College is a non-sectarian institution. Religious services on Sunday afternoons are conducted during the year by clergymen of different denominations from all parts of the State. Attendance at daily morning chapel exercises is compulsory. Students are allowed to attend Sunday services at the churches in Hyattsville and College Park.

STUDENT ORGANIZATION.

Student clubs for social, literary and athletic purposes are encouraged as means of creating class and college pride and increasing an esprit de corps among the students. Each has its own organization in which matters relating to class work are discussed and directed. Officers are elected, and the unity of the classes is strictly preserved. This has been found to be a decided aid to discipline and tends to raise the standard of student honor.

Among the successful student societies are the Mercer Literary Society, which has accomplished much good during the past year, the M. A. C. Athletic Association, which controls and directs the work of the College Athletic team, the Rossbourg Club,—a social organization, the Glee Club, and the Cadets' Annual,—an organization of the Senior Class which publishes an annual magazine. The first number of this publication, "The Reveille" for 1896-97, was a most creditable publication.

STUDENT EXPENSES.

The expenses of the College year for the several classes of students are as follows:—

REGULAR STUDENTS.

Board, Heat, Light, Room and Books,.....	\$150.00
Laboratory Fee,.....	6.00
Physician's Fee,.....	4.00
Breakage Fee,.....	5.00
Total Cost,	\$165.00

SCHOLARSHIP STUDENTS.

Board, Heat, Light, Room and Books,.....	\$70.00
Laboratory Fee,.....	6.00
Physician's Fee,.....	4.00
Breakage Fee,.....	5.00
Total Cost,	\$85.00

DAY STUDENTS.

Room, Heat and Books,.....	\$24.00
Laboratory Fee,.....	6.00
Breakage Fee,.....	5.00
Total Cost,	\$35.00

TIME OF PAYMENT.

For Regular Students.—

\$40.00 (and the fees) on entrance; \$40.00 on November 15th; \$40.00 on February 1st; \$30.00 on April 1st.

For Scholarship Students.—

\$35.00 (and the fees) on entrance; 35.00 on February 1st.

For Day Students.—

\$12.00 (and the fees) on entrance; and \$12.00 on February 1st.

EXPLANATION OF FEES.

The Laboratory Fee is intended to cover the cost of the materials and apparatus consumed by the student in practical laboratory work.

The Physician's Fee is to provide for the attendance of the regular College Physician in all ordinary cases of sickness.

The Breakage Fee is to cover all losses to the College caused by careless breakage or otherwise by the students. Each loss is divided proportionately among the students, and the unused balance of each fee refunded at the close of the year. In case the loss is known to be caused by any particular student, the whole amount is charged to his account.

Except in cases of extended illness, no money will be refunded for long continued absence or withdrawal from the College.

Students entering late in the session will be charged according to the date of entrance.

ARTICLES NECESSARY TO BE PROVIDED.

All students are required to provide themselves with the following articles, to be brought from home or purchased from the Quartermaster's Department at the College:—

- 1 dozen white collars, uniform.
- 6 pair white gloves, uniform.
- 6 pair white cuffs, uniform.
- 1 pair blankets.
- 3 pair sheets.
- 4 pillow cases.
- 2 blue bed-spreads, uniform.
- 6 towels.
- 1 chair, uniform.

The room-mates together purchase the following articles:—

- 1 set of lamp fixtures, uniform.
- 1 pitcher and basin, uniform.
- 2 table-cloths, uniform.
- 1 broom, uniform.
- 1 looking glass, uniform.
- 1 bucket, uniform.
- 1 blacking-box cupboard, uniform.

All the articles marked uniform in the foregoing list can best be purchased at the Quartermaster's Department after the student arrives at the College. The cost of the entire list should not be more than \$10.00 for the year.

UNIFORM.

The Cadet Uniform of substantial grey cloth, which is required to be worn by students at all times, is made by contract with the tailors at a much lower price than it could be furnished to individuals. The student's measure is taken after he arrives at the College, and the fit is guaranteed. The cost of the entire outfit,—coat, trousers and cap, is about \$14.39. Payment must be made for this at the time of entrance.

For further particulars as to entrance, examination, expenses, etc., address, The President, Express Office, College Station, B. & O. R. R.; Telegraph Office, Hyattsville, Md.

R. W. SILVESTER, President,
Md. Agricultural College,
College Park, Maryland.

Maryland Agricultural College.

PROGRAM OF PUBLIC EXERCISES.

SUNDAY, June 13th:

- 4 P. M.—Baccalaureate Sermon by Rev. Jas. H. Young, of Baltimore, Md.

MONDAY, June 14th:

- 2 P. M.—Field Sports on College Campus.
 4 P. M.—Distribution of Athletic Prizes, College Hall.
 5 P. M.—Drill and Dress Parade, College Campus.
 8 P. M.—Public Meeting of Mercer Literary Society. Debate for Gold Medal.

TUESDAY, June 15th:

- 2 P. M.—Competitive Company Drill and Target Practice. College Campus.
 4 P. M.—Battalion Drill and Dress Parade, College Campus.
 8 P. M.—Class Day Exercise, College Hall. Address by Pres. R. W. Silvester.

WEDNESDAY, June 26th:

- 2.30 P. M.—Commencement Exercises, College Hall. Address by Hon. H. E. Davis.
 4.30 P. M.—Exhibition Drill on College Campus.
 5 P. M.—Annual Meeting of Alumni Association.
 9 P. M.—Thirty-eighth Annual Ball in College Hall.

Maryland Agricultural College.

Class-Day Exercises.

Tuesday, June 15th.

Piano Solo, - - - - - Mr. C. W. Muller.

Entry of Senior Class.

Class History and Prophecy, - - - - - Mr. Franklin Sherman.

Ode of Class of '97, - - - Words by W. S. Weedon and F. Sherman.

Music by J. D. Cronmiller.

Entry of Junior Class.

Announcement, Senior Lictor, - - - - - Mr. Benj. Watkins, Jr.

Address, Senior Orator, - - - - - Mr. A. S. Gill.

Presentation of Class³ Shield.

Address, Junior Orator, - - - - - Mr. D. C. Barnett.

M. A. C. Two-Step, - - - - - Mr. I. E. Whitehill.

Class Pipe and Song.

Announcement, Junior Lictor, - - - - - Mr. C. W. Nesbitt.

Instalment of New Senior Class.

Resolutions.

Address upon Resolutions, - - - - - Mr. P. L. Robb.

Formal Adjournment.

Address to Classes, - - - - - Pres. R. W. Silvester.

MARYLAND AGRICULTURAL COLLEGE.

THE COMMENCEMENT EXERCISES, WEDNESDAY, JUNE 16, 1897.

COLLEGE CHAPEL.



MUSIC.

Address to Graduates, - - - - Hon. H. E. Davis.

MUSIC.

Salutatory Address, - - - - Wm. S. Weedon.

Valedictory Address, - - - - J. D. Cronmiller.

MUSIC.



Presentation of Diplomas and Prizes,

By His Excellency, Governor Lowndes.

Maryland Agricultural College.

Senior Class and Theses.

- Charles B. Calvert, Jr., - - - - - College Park, Md.
"COLONIAL HISTORY OF MARYLAND."
- John D. Cronmiller, - - - - - Laurel, Md.
"THE ARBITRATION TREATY WITH ENGLAND."
- Albert S. Gill, - - - - - Baltimore, Md.
"THE EFFECT OF COMPETITION ON LABOR."
- Nicholas H. Gill, - - - - - Baltimore, Md.
"LOUIS PASTEUR, AND HIS EXPERIMENTS."
- J G. R. Graham, - - - - - Ingleside, Q. A. Co., Md.
"THE ECONOMIC PHENOMENA OF HARD TIMES."
- Harry Heward, - - - - - Snow Hill, Wor. Co., Md.
"THE INFLUENCE OF PHOTOGRAPHY."
- Grenville Lewis, Jr., - - - - - Washington, D. C.
"PHOTOGRAVURE, OR HALF-TONE."
- E. Parke Lindsay, - - - - - Portsmouth, Va.
"BACTERIA AND THEIR RELATION TO FERMENTATION."
- Bert S. Nelligan, - - - - - Washington, D. C.
"THE CAMPAIGNS OF NAPOLEON."
- Fabian Posey, - - - - - La Plata, Chas. Co., Md.
"THE MAYORS OF OUR CITIES."
- Charles J. Queen, - - - - - Waldorf, Pr. Geo. Co., Md.
"VARIATION IN ANIMAL AND VEGETABLE ORGANISMS."
- G. K. W. Schenck, - - - - - Brooklyn, N. Y.
"NAPOLEON'S FIRST CAMPAIGN."
- Franklin Sherman, Jr., - - - - - Ash Grove, Va.
"APPLICATIONS OF THE LAW OF SUPPLY AND DEMAND."
- Benj. Watkins, Jr., - - - - - Rutland, A. A. Co., Md.
"SCIENTIFIC DAIRYING."
- Wm. S. Weedon, - - - - - Baltimore, Md.
"ACETYLENE."
- Harry T. Welty, - - - - - Berwyn, Pr. Geo. Co., Md.
"FEATS OF MODERN ENGINEERING."
- Gilbert H. Whiteford, - - - - - Glen Morris, Balto Co., Md.
"INTUITION OR MENTAL SUGGESTION."

Prizes Awarded.

GOLD MEDAL TO

H. T. Welty, - - - - - Highest general average in full course.

GOLD MEDAL TO

E. T. Dickerson, - - - - - Highest general average in junior class

PRIZE TO

Hanson Mitchell, - - - - - Excellence in junior class.

PRIZE TO

J. C. Blandford, - - - - - Excellence in sophomore mechanics.

PRIZE TO

F. A. Gibbons, - - - - - Excellence in freshman mechanics.

PRIZE TO

C. W. Pindell, - - - - - Excellence in preparatory drawing.

COMMISSIONED OFFICER'S SWORD TO

J. G. R. Graham, - - - - - Best company in battalion of cadets.

GOLD MEDAL TO

Grenville Lewis, Jr., - - - - - The best general athlete.

The following is a roster of students for the year of 1896-97:

STUDENTS ENROLLED DURING 1896-97.

SENIOR CLASS.

Calvert, Charles B. Jr.....	College Park, Md.
Cronmiller, J. D.....	Laurel, Md.
Gill, A. S.....	Baltimore, Md.
Gill, N. H.....	Baltimore, Md.
Graham, J. G. R.....	Ingleside, Md.
Heward, Harry.....	Snow Hill, Md.
Lindsay, E. P.....	Portsmouth, Va.
Lewis, Grenville, Jr.....	Eckington, D. C.
Nelligan, B. S.....	Washington, D. C.
Posey, Fabian.....	La Plata, Md.
Queen, C. J.....	Waldorf, Md.
Sherman, Franklin, Jr.....	Ash Grove, Va.
Schenck, G. K. W.....	Brooklyn, N. Y.
Watkins, Benjamin, Jr.....	Rutland, Md.
Weedon, W. S.....	Baltimore, Md.
Welty, H. T.....	Berwyn, Md.
Whiteford, G. W.....	Glen Morris, Md.

Total, 17.

JUNIOR CLASS.

Allnutt, C. V.....	Dawsons Run, Md.
Barnett, D. C.....	Cambridge, Md.
Burrough, C. R.....	Harris Lot, Md.
Cameron, George W.....	Bay View, Md.
Dennison, R. E.....	Washington, D. C.
Dickerson, E. F.....	Dickerson, Md.
Houston, L. H.....	Stockton, Md.
Lillibridge, J. A.....	Laurel, Md.
Mitchell, Hanson.....	Port Tobacco, Md.
Muller, Charles W.....	Baltimore, Md.
Nesbitt, W. C.....	Brookville, Md.
Peterson, George.....	Wallville, Md.

JUNIOR CLASS—CONTINUED.

Ridgely, C. H.....	Sykesville, Md.
Robb, P. L.....	Port Royal, Va.
Robertson, George.....	Princess Anne, Md.
Whitely, R. P.....	Branchville, Md.

Total, 16.

SOPHOMORE CLASS.

Barton, F. C.....	Queen Anne, Md.
Bellis, George.....	Hyattsville, Md.
Betton, J. J.....	Baltimore, Md.
Blanford, J. C.....	Clinton, Md.
Cadle, J. S.....	College Park, Md.
Collins, H. E.*.....	Princess Anne, Md.
Church, H. I.....	College, Park, Md.
Combs, R. L.....	Leonardtown, Md.
Galt, M. H.....	Taneytown, Md.
Gorsuch, W. M.....	Glencoe, Md.
Gough, T. B.....	Budd's Creek, Md.
Grason, A. S. R.....	Towson, Md.
Hacker, H. K.....	Buffalo, N. Y.
Hammond, W. H.....	Baltimore, Md.
Jenifer, T. C. R.....	Lock Raven, Md.
Kenly, J. T.....	Level, Md.
Leatherman, G. J.....	Lewistown, Md.
McCandlish, R. J.....	Piedmont, W. Va.
Price, T. N.....	Darlington, Md.
Robb, J. B.....	Port Royal, Va.
Shamberger, D. F.....	Shamberg, Md.
Shipley, J. H.....	College Park, Md.
Straughn, M. N.....	Ingleside, Md.
Thorne, Owen.....	Friendly P. O., Md.
Trueworthy, T. H.....	Washington, D. C.
Whitehill, I. E.....	Huronville, Md.
Yount, Myron.....	Washington, D. C.

Total, 27.

FRESHMAN CLASS.

Alvey, Harry.....	Hagerstown, Md.
Bell, F. G.....	Salisbury, Md.

FRESHMAN CLASS—CONTINUED.

Borst, Theo. G.....	Baltimore, Md.
Brooks, C. J.....	Brookland, D. C.
Brydon, S. B.....	Baltimore, Md.
Butler, K. H.....	Cumberland, Md.
Cabrera, C. F.....	Washington, D. C.
Campbell, D. H.....	Berwyn, Md.
Campbell, I. H.....	Berwyn, Md.
Church, C. G.....	College Park, Md.
Dirickson, Levin.....	Berlin, Md.
Dirickson, E. F.....	Berlin, Md.
Fish, G. F.....	Port Hull, Md.
Fluharty, A. M.....	Baltimore, Md.
Garner, W. H.....	Millston, Md.
Gibbons, F. A.....	Washington, D. C.
Gorham, W. B.....	Washington, D. C.
Groff, W. D.....	Owings Mills, Md.
Hershberger, A. C.....	Poolesville, Md.
Hinebaugh, W. H.....	Oakland, Md.
Hines, F. B.....	Chestertown, Md.
Hook, J. W.....	Baltimore, Md.
Jenifer, R. N.....	Lock Raven, Md.
Jones, J. A.....	Dickerson, Md.
Odenheimer, John.....	Philadelphia, Pa.
Peach, S. N.....	Mitchellville, Md.
Phelps, H. S.....	Laurel, Md.
Rouse, B.....	Bel Air, Md.
Rouse, E. S.....	Bel Air, Md.
Sappington, E. N.....	Darlington, Md.
Simonds, E. B.....	Riversdale, Md.
Talbott, W. H.....	Willows P. O., Md.
Talty, R. C. R.....	Washington, D. C.
Thomas, J. B.....	Baltimore, Md.
Van Dyck, John H.....	Lewinsville, Va.
Weems, J. D.....	Ellicott City, Md.
Weigand, W. H.....	Lutusborg, Md.
Williamson, H. A.....	Cumberland, Md.

Total, 38.

PREPARATORY CLASS.

Bowie, D. M.....	Baltimore, Md.
Brinkley, E. H.....	College Park, Md.
Cabrera, J. H.....	Washington, D. C.
Carroll, D. G.....	Baltimore, Md.
Carver, W. N.....	Washington, D. C.
Cashell, D. W.....	Clarkesville, Md.
Colbert, J. A.....	Point of Rocks, Md.
Dulany, G. L.....	Baltimore, Md.
Duvall, E. M.....	Laurel, Md.
Freeman, L. E.....	Allen's Fresh, Md.
Hammerslough, E. P.....	New York, N. Y.
Holloway, S. J.....	Chevy Chase, Md.
Johnson, C. F.....	College Park, Md.
McGlone, F. L.....	Albemarle Co., Va.
McNamee, H. W.....	College Park, Md.
Parsons, W. J.....	Morganza, Md.
Pindell, C. W.....	Jewell P. O., Md.
Phelps, C. E.....	Laurel, Md.
Ray, A. A.....	Chillum, Md.
Russell, J. H.....	Clements, Md.
Schacker, C. H.....	Baltimore, Md.
Speake, E. R.....	Riverside, Md.
Stanford, Harry.....	Washington, D. C.
Trovers, C. E.....	Baltimore, Md.
Wheeler, H. S.....	Fairland, Md.
Wooton, Roland.....	Poolesville, Md.

Total, 26.

Sum total, 124.

The following letter explains itself. The pardonable pride which we take in presenting the same to our patrons, and those who intend to become such, can well be appreciated by them:

BAY RIDGE HOTEL.

Bay Ridge, Md., June 12th, 1897.

President, Maryland Agricultural College,
College Park, Maryland.

My Dear Sir:—

I envy you in your position. To have supreme control over and to be affiliated with such a number of exemplary soldiers is something one may well be proud of.

No single instance of any kind that could be construed into wrongdoing (of any description), boisterous or otherwise can be charged to the gentlemanly behaviour of your battalion while sojourning at Bay Ridge.

Truly yours,

(Signed:)

J. S. DUVALL, Mgr.

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